**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 523 | (organoclay clay nanoclay (layer $4 near2 silicate)) with agglomerat$ with (size diameter) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 15:19 |
| L2 | 361762 | (maximum max) with (size diameter) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 15:20 |
| L3 | 74 | l1 and l2 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 15:20 |
| L4 | 864413 | epox$6 diepox$6 triepox$6 polyepox$6 glycidyl$ diglycidyl$ triglycidyl$ tetraglycidyl$ polyglycidyl$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 15:22 |
| L5 | 30 | ((organoclay clay nanoclay (layer$4 near2 silicate)) with (agglomerat$ secondary) with (size diameter)) and l2 and L4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 15:22 |
| L6 | 41 | ((organoclay clay nanoclay (layer$4 near2 silicate)) with (agglomerat$ secondary aggregat$) with (size diameter)) and l2 and L4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 15:34 |
| L7 | 11 | l6 not l5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 15:34 |
| L8 | 47 | ((organoclay clay nanoclay (layer$4 near2 silicate)) with (agglomerat$ secondary aggregat$) with (size diameter dimension)) and ((maximum max) with (agglomerat$ secondary aggregat$ size diameter dimension)) and L4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 15:38 |

| L9 | 233 | ((organoclay clay nanoclay (layer$4 near2 silicate)) with (agglomerat$ secondary aggregat$) with (size diameter dimension)) and ((maximum max) with (agglomerat$ secondary aggregat$ size diameter dimension)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 15:44 |
|---|---|---|---|---|---|---|
| L10 | 2 | "6287992".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 16:24 |
| L11 | 23 | hoa-v$.in. hoa-v$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:12 |
| L12 | 19843 | liu-w$.in. liu-w$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:12 |
| L13 | 129 | pugh-m$.in. pugh-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:12 |
| L14 | 5450 | ton$5-m$.in. ton$5-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:12 |
| L15 | 25427 | L11 L12 L13 L14 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:12 |
| L16 | 864413 | epox$6 diepox$6 triepox$6 polyepox$6 glycidyl$ diglycidyl$ triglycidyl$ tetraglycidyl$ polyglycidyl$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |
| L17 | 23 | hoa-v$.in. hoa-v$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |
| L18 | 19843 | liu-w$.in. liu-w$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |

| L19 | 129 | pugh-m$.in. pugh-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |
|---|---|---|---|---|---|---|
| L20 | 5450 | ton$5-m$.in. ton$5-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |
| L21 | 25427 | L17 L18 L19 L20 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |
| L22 | 1675 | 523/440.ccls. 523/443.ccls. 523/466.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |
| L23 | 5 | L21 and ((solvent acetone solution ethanol methanol alcohol ketone ethylketone methylethylketone "mek") same (organoclay clay nanoclay (layer $4 near2 silicate)) same L16) and (sonicat$4 ultrasonicat$4 (high near3 (shear shearing sheared))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |
| L24 | 3 | L22 and ((solvent acetone solution ethanol methanol alcohol ketone ethylketone methylethylketone "mek") same (organoclay clay nanoclay (layer $4 near2 silicate)) same L16) and (sonicat$4 ultrasonicat$4 (high near3 (shear shearing sheared))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |
| L25 | 8 | L23 L24 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/09/06 17:13 |
| S25 | 496814 | silicone polysiloxane polyorganosiloxane polydiorganosiloxane organopolysiloxane organosiloxane diorganopolysiloxane siloxane organosilicone | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/14 09:00 |
| S26 | 317795 | curative hardener (cross adj2 linker) crosslinker ((curing hardening (cross adj2 linking) crosslinking) adj2 (agent promoter)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/28 14:33 |

| S27 | 1222941 | amine amino diamine diamino triamine triamino polyamine polyamino | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/12/12 13:13 |
|---|---|---|---|---|---|---|
| S28 | 605176 | epox$6 diepox$6 triepox$6 polyepox$6 glycidyl$ diglycidyl$ triglycidyl$ tetraglycidyl$ polyglycidyl$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/02/14 09:01 |
| S31 | 777467 | epox$6 diepox$6 triepox$6 polyepox$6 glycidyl$ diglycidyl$ triglycidyl$ tetraglycidyl$ polyglycidyl$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:01 |
| S32 | 34749 | (clay nanoclay (layer$4 near2 silicate)) with (solvent solution) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:03 |
| S33 | 3513 | (clay nanoclay (layer$4 near2 silicate)) with S31 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:03 |
| S34 | 691 | S32 and S33 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:03 |
| S35 | 950 | flow with (microcircuit ((micro micrometer) near5 circuit)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:04 |
| S36 | 201731 | flow with (cell microcircuit ((micro micrometer) near5 circuit)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:04 |
| S37 | 1 | S34 and S35 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:05 |
| S38 | 7 | S34 and S36 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:05 |

| S39 | 1576 | pressure with velocity with (shear shear$4) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:06 |
|---|---|---|---|---|---|---|
| S40 | 6 | S34 and S39 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:07 |
| S42 | 41544 | (organoclay clay nanoclay (layer $4 near2 silicate)) with (solvent solution slurry) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:21 |
| S43 | 3536 | (organoclay clay nanoclay (layer $4 near2 silicate)) with S31 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:22 |
| S44 | 744 | S42 and S43 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:22 |
| S45 | 9 | S44 and S39 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:22 |
| S46 | 4 | ("4664842" "5110501").pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 10:33 |
| S47 | 28 | ("4739007" \| "4810734" \| "4889885" \| "5164440" \| "5385776" \| "5554670" \| "5663111" \| "5728764" \| "5780376").PN. OR ("6271298").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/24 11:01 |

| S48 | 221 | ("20010056149" \| "20020002230" \| "2367384" \| "2531396" \| "2531427" \| "2531440" \| "2531812" \| "2552775" \| "2622987" \| "2658869" \| "2739067" \| "2750296" \| "2754219" \| "2767177" \| "2795545" \| "2883356" \| "2885360" \| "2966506" \| "3027322" \| "3084117" \| "3125547" \| "3136819" \| "3252757" \| "3471439" \| "3537994" \| "3567680" \| "3573944" \| "3586478" \| "3666407" \| "3671190" \| "3687846" \| "3691070" \| "3764456" \| "3779933" \| "3804656" \| "3839389" \| "3843591" \| "3855147" \| "3915867" \| "3951850" \| "3954943" \| "3974125" \| "3977894" \| "3988287" \| "4033764" \| "4040974" \| "4049780" \| "4053493" \| "4060518" \| "4081496" \| "4087365" \| "4105578" \| "4116866" \| "4190686" \| "4216135" \| "4240951" \| "4251576" \| "4290935" \| "4291154" \| "4314919" \| "4314929" \| "4315828" \| "4339391" \| "4341565" \| "4349389" \| "4365030" \| "4382868" \| "4386010" \| "4391637" \| "4410364" \| "4412018" \| "4431755" \| "4434075" \| "4434076" \| "4444714" \| "4450095" \| "4454237" \| "4454244" \| "4455382" \| "4462470" \| "4464274" \| "4465542" \| "4470912" \| "4472538" \| "4473477" \| "4473675" \| "4480060" \| "4500668" \| "4508628" \| "4517094" \| "4528104" \| "4528304" \| "4549966" \| "4552712" \| "4558075" \| "4569923" \| "4600515" \| "4620993" \| "4623398" \| "4631091" \| "4640716" \| "4659760" \| "4664842" \| "4690868" \| "4695402" \| "4724098" \| "4739007" \| "4743305" \| "4743306" \| "4753974" \| "4775586" \| "4786558" \| "4789403" \| "4804703" \| "4810734" \| "4876030" \| "4889885" \| "4990405" \| "5061744" \| | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/24 11:01 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | "5089200" \| "5102948" \| "5110501" \| "5151155" \| "5160454").PN. OR ("5164433" \| "5164440" \| "5164460" \| "5188064" \| "5248641" \| "5248720" \| "5310775" \| "5334241" \| "5376604" \| "5385776" \| "5391228" \| "5464472" \| "5514734" \| "5552469" \| "5554670" \| "5574179" \| "5576257" \| "5578672" \| "5616286" \| "5663111" \| "5700319" \| "5718841" \| "5728764" \| "5735943" \| "5739087" \| "5780376" \| "5785749" \| "5786417" \| "5798324" \| "5837654" \| "5882662" \| "5883173" \| "5900309" \| "5905109" \| "5916863" \| "5919863" \| "5955535" \| "5962553" \| "5969029" \| "5977050" \| "5989331" \| "6025303" \| "6034163" \| "6036765" \| "6037315" \| "6060549" \| "6074474" \| "6084019" \| "6087016" \| "6113891" \| "6124245" \| "6133374" \| "6136241" \| "6147151" \| "6153572" \| "6162857" \| "6187719" \| "6221831" \| "6225374" \| "6271298" \| "6287634" \| "6287992" \| "6407155").PN. OR ("6730719").URPN. | | | | |
| S49 | 219 | ("2367384" \| "2531396" \| "2531427" \| "2531440" \| "2531812" \| "2552775" \| "2622987" \| "2658869" \| "2739067" \| "2750296" \| "2754219" \| "2767177" \| "2795545" \| "2883356" \| "2885360" \| "2966506" \| "3027322" \| "3084117" \| "3125547" \| "3227675" \| "3252757" \| "3290165" \| "3471439" \| "3509066" \| "3537994" \| "3567680" \| "3573944" \| "3666407" \| "3671190" \| "3687846" \| "3691070" \| "3764456" \| "3804656" \| "3839389" \| "3843591" \| "3844978" \| "3844979" \| "3852405" \| "3855147" \| "3915867" \| "3951850" \| "3974125" \| "3977894" \| "3988287" \| "4033764" \| "4033893" \| "4040974" \| "4060518" \| "4081496" \| "4087365" \| | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/24 11:02 |

"4105578" | "4116866" |
"4190686" | "4216135" |
"4216188" | "4240951" |
"4251576" | "4290935" |
"4291154" | "4314919" |
"4314929" | "4339391" |
"4341565" | "4349389" |
"4365030" | "4382868" |
"4386010" | "4391637" |
"4410364" | "4412018" |
"4431755" | "4434075" |
"4434076" | "4444714" |
"4450095" | "4454237" |
"4455382" | "4462470" |
"4464274" | "4465542" |
"4470912" | "4472538" |
"4473477" | "4473675" |
"4480060" | "4500668" |
"4508628" | "4517094" |
"4528104" | "4528304" |
"4552712" | "4558075" |
"4569923" | "4600515" |
"4620993" | "4623398" |
"4631091" | "4640716" |
"4659760" | "4664842" |
"4690868" | "4695402" |
"4724098" | "4739007" |
"4743305" | "4743306" |
"4753974" | "4775586" |
"4786558" | "4789403" |
"4804703" | "4810734" |
"4830843" | "4876030" |
"4889885" | "4990405" |
"5061744" | "5089200" |
"5102948" | "5110501" |
"5114895" | "5151155" |
"5160454" | "5164433" |
"5164440").PN. OR ("5164460"
| "5188064" | "5248641" |
"5248720" | "5310775" |
"5328590" | "5334241" |
"5376604" | "5385776" |
"5391228" | "5429999" |
"5464472" | "5514734" |
"5552469" | "5554670" |
"5574179" | "5576257" |
"5578672" | "5616286" |
"5663111" | "5700319" |
"5718841" | "5728764" |
"5735943" | "5739087" |
"5780376" | "5785749" |
"5786417" | "5837654" |
"5843862" | "5882662" |
"5883173" | "5900309" |
"5916863" | "5955535" |
"5962553" | "5969029" |
"5989331" | "6025295" |
"6025303" | "6034163" |
"6036765" | "6037315" |
"6060549" | "6074474" |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | "6084019" l "6087016" l "6113891" l "6123962" l "6124245" l "6162857" l "6221831" l "6225374" l "6287634" l "6287992" l "6380295" l "6407155").PN. OR ("6787592").URPN. | | | | |
| S50 | 263 | S47 S48 S49 | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/24 11:02 |
| S51 | 19 | (pinnavaia-$.in. pinnavaia-$-$.in.) and S31 and (organoclay clay nanoclay (layer$4 near2 silicate)) | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/24 11:05 |
| S52 | 2061 | manton adj2 gaulin | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/24 11:07 |
| S53 | 125 | S52 and S31 and (organoclay clay nanoclay (layer$4 near2 silicate)) | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/24 11:07 |
| S54 | 425 | S44 and ((organoclay clay nanoclay (layer$4 near2 silicate)) with (solvent)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:25 |
| S55 | 11 | (pinnavaia-$.in. pinnavaia-$-$.in.) and S54 | US-PGPUB; USPAT; USOCR | OR | ON | 2010/02/24 11:26 |
| S56 | 337 | (organoclay clay nanoclay (layer$4 near2 silicate)) with (solvent solution) with S31 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:29 |
| S57 | 176 | S56.ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:29 |
| S58 | 22 | S56 and ((organoclay clay nanoclay (layer$4 near2 silicate)) with (solvent solution)).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:32 |
| S59 | 278 | S31 and ((organoclay clay nanoclay (layer$4 near2 silicate)) with (solvent solution)).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:34 |
| S60 | 123 | S31 and ((organoclay clay nanoclay (layer$4 near2 silicate)) with (solvent solution)).clm. and (S31 same (organoclay clay nanoclay (layer$4 near2 silicate))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:34 |

| S61 | 1 | S31 and ((organoclay clay nanoclay (layer$4 near2 silicate)) with (solvent solution)).clm. and (S31 same (organoclay clay nanoclay (layer $4 near2 silicate))) and feely | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:42 |
|-----|---|---|---|---|---|---|
| S62 | 1 | S31 and ((organoclay clay nanoclay (layer$4 near2 silicate)) with (solvent solution)) and (S31 same (organoclay clay nanoclay (layer $4 near2 silicate))) and feely | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:42 |
| S63 | 5 | S31 and ((organoclay clay nanoclay (layer$4 near2 silicate)) with (solvent solution)) and feely | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:43 |
| S64 | 3 | S56 and (S39 S52) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:49 |
| S65 | 3162 | ((organoclay clay nanoclay (layer$4 near2 silicate)) same (solvent solution) same S31) ((organoclay clay nanoclay (layer$4 near2 silicate)).ab. and (solvent solution).ab. and S31. ab.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:50 |
| S66 | 8 | S65 and (S39 S52) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:50 |
| S67 | 4722 | ((organoclay clay nanoclay (layer$4 near2 silicate)) same (solvent solution slurry water aqueous) same S31) ((organoclay clay nanoclay (layer$4 near2 silicate)).ab. and (solvent solution slurry water aqueous).ab. and S31.ab.) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:53 |
| S68 | 9 | S67 and (S39 S52) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:53 |
| S69 | 115 | S67 and (S39 S52 homogeniser homogenizer) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:53 |

| S70 | 34 | S67 and (S39 S52 (pressure near5 (homogeniser homogenizer))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 11:54 |
|------|------|------|------|------|------|------|
| S71 | 67 | (organoclay clay nanoclay (layer $4 near2 silicate)) with (solvent solution slurry water aqueous) with sonicat$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 13:03 |
| S72 | 32 | S31 and S71 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 13:03 |
| S73 | 145 | (organoclay clay nanoclay (layer $4 near2 silicate)) same (solvent solution slurry water aqueous) same sonicat$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 13:11 |
| S74 | 46 | S31 and S73 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 13:11 |
| S75 | 3841 | (organoclay clay nanoclay (layer $4 near2 silicate)) same (solvent solution slurry water aqueous) same homogeneous | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 13:26 |
| S76 | 472 | S31 and S75 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 13:27 |
| S77 | 730 | (organoclay clay nanoclay (layer $4 near2 silicate)) with (solvent solution slurry water aqueous) with homogeneous | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 13:27 |
| S78 | 791 | (organoclay clay nanoclay (layer $4 near2 silicate)) with (solvent solution slurry water aqueous) with (homogeneous sonicat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 13:27 |
| S79 | 148 | S31 and S78 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 13:27 |

| S80 | 777467 | epox$6 diepox$6 triepox$6 polyepox$6 glycidyl$ diglycidyl$ triglycidyl$ tetraglycidyl$ polyglycidyl$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 16:49 |
|---|---|---|---|---|---|---|
| S81 | 791 | (organoclay clay nanoclay (layer $4 near2 silicate)) with (solvent solution slurry water aqueous) with (homogeneous sonicat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 16:49 |
| S82 | 148 | S80 and S81 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 16:49 |
| S83 | 2 | us-20070299202-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/24 18:09 |
| S84 | 2 | us-20070299202-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 09:47 |
| S85 | 1 | S84 and (micrometer near5 circuit) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 09:48 |
| S86 | 1 | S84 and (micrometer near3 range) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:12 |
| S87 | 2 | S84 and (clay with exfoliat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:19 |
| S88 | 2 | S84 and (agglomerate with diameter) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:21 |
| S89 | 2 | S84 and (fracture and viscoelastic and strain) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:23 |

| S90 | 1 | S84 and (loading same "k1c" same "g1c") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:25 |
| S91 | 1 | S84 and (loading and "k1c" and "g1c") | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:26 |
| S92 | 2 | S84 and (loading) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:26 |
| S93 | 1 | S84 and "k.sub.1c" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:28 |
| S94 | 1 | S84 and "k.sub.1c" and "g.sub.1c" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:29 |
| S95 | 2 | S84 and (barrier with absorption with flammability) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:31 |
| S96 | 2 | S84 and (stability) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:34 |
| S97 | 2 | S84 and (pristine with clay) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:36 |
| S98 | 2 | S84 and aircraft | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:40 |
| S99 | 2 | S84 and aircraft and automobile and sport and adhesive and sealant and wood and coatings and pipe and boat and reservoir | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:41 |

| S100 | 83801 | (organoclay clay nanoclay (layer $4 near2 silicate)) with (solvent solution slurry water aqueous) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:47 |
|---|---|---|---|---|---|---|
| S101 | 778041 | epox$6 diepox$6 triepox$6 polyepox$6 glycidyl$ diglycidyl$ triglycidyl$ tetraglycidyl$ polyglycidyl$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:48 |
| S102 | 9452 | S100 and S101 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:48 |
| S103 | 3550 | (organoclay clay nanoclay (layer $4 near2 silicate)) same (solvent solution slurry water aqueous) same S101 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:48 |
| S104 | 201 | S103 and (S101 near5 rubber) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:49 |
| S105 | 10 | pinnavaia and (S101 near5 rubber) and (organoclay clay nanoclay (layer$4 near2 silicate)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 10:53 |
| S106 | 156 | (S101 near5 rubber).ab. and (organoclay clay nanoclay (layer $4 near2 silicate)).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 11:29 |
| S107 | 22 | hoa-v$.in. hoa-v$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:03 |
| S108 | 12191 | liu-w$.in. liu-w$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:04 |
| S109 | 113 | pugh-m$.in. pugh-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:04 |

| S110 | 0 | tonthat-m$.in. tonthat-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:04 |
| S111 | 4907 | ton$5-m$.in. ton$5-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:05 |
| S112 | 2 | S107 and S108 and S109 and S111 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:05 |
| S113 | 17219 | S107 S108 S109 S111 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:06 |
| S114 | 22 | S113 and solvent and (organoclay clay nanoclay (layer $4 near2 silicate)) and S101 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:07 |
| S115 | 2 | S113 and solvent.clm. and (organoclay clay nanoclay (layer $4 near2 silicate)).clm. and S101.clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:09 |
| S116 | 1584 | 523/440.ccls. 523/443.ccls. 523/466.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:10 |
| S117 | 532 | 366/341.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:20 |
| S118 | 61323 | S116 S117 "366"/$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:20 |
| S119 | 1664 | (solvent acetone) same (organoclay clay nanoclay (layer $4 near2 silicate)) same S101 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:21 |

| S120 | 31 | S118 and S119 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:21 |
|------|----|---------------|----------------------------------------------------------|----|----|-----------------|
| S121 | 57 | ("4465797" "4664842" "4687796" "4983672" "5439746" "5505895" "5514734" "5747557" "5747560" "5840796" "6040350" "6107387" "6174967" "6287992" "6384121" "6391449" "6407155" "6500892" "6579588" "20020055581" "20020058739" "20020086908" "20020098309" "20020107318" "20020119266" "20020137834" "20020143094" "20020165305" "20030039812").pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:28 |
| S122 | 16 | ep-325058-$.did. ep-441047-$.did. ep-755415-$.did. ep-785971-$.did. ep-890616-$.did. ep-899300-$.did. ep-1038913-$.did. ep-1141136-$.did. ep-1312582-$.did. ep-228234-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:32 |
| S123 | 11 | wo-9311190-$.did. wo-9506090-$.did. wo-9611238-$.did. wo-9810012-$.did. wo-0098540-$.did. wo-02079301-$.did. wo-02096982-$.did. wo-02024759-$.did. wo-03066737-$.did. wo-200098540-$.did. wo-2002079301-$.did. wo-2002096982-$.did. wo-2002024759-$.did. wo-2003066737-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:34 |
| S124 | 0 | wo-020079301-$.did. wo-020096982-$.did. wo-020024759-$.did. wo-030066737-$.did. wo-2000098540-$.did. wo-20020079301-$.did. wo-20020096982-$.did. wo-20020024759-$.did. wo-20030066737-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:37 |
| S125 | 1 | wo-0279301-$.did. wo-0296982-$.did. wo-0224759-$.did. wo-0366737-$.did. wo-200098540-$.did. wo-200279301-$.did. wo-200296982-$.did. wo-200224759-$.did. wo-200366737-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:38 |

| S126 | 0 | wo-0098540-$.did. wo-200098540-$.did. wo-00098540-$.did. wo-2000098540-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:39 |
|------|---|---|---|---|---|---|
| S127 | 1 | wo-0078540-$.did. wo-200078540-$.did. wo-00078540-$.did. wo-2000078540-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:40 |
| S128 | 27 | ("4743306" "4983672" "5478885" "6040350" "6251980" "6417262" "7166656" "5514734" "5962553" "7049353" "20050027040" "6914095" "6639025").pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:47 |
| S129 | 92 | (S121 S122 S123 S124 S125 S126 S127 S128) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:48 |
| S130 | 8 | S119 and S129 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/02/25 12:48 |
| S131 | 798713 | epox$6 diepox$6 triepox$6 polyepox$6 glycidyl$ diglycidyl$ triglycidyl$ tetraglycidyl$ polyglycidyl$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 10:43 |
| S132 | 1697 | (solvent acetone) same (organoclay clay nanoclay (layer $4 near2 silicate)) same S131 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 10:43 |
| S133 | 212 | (solvent acetone) with (organoclay clay nanoclay (layer $4 near2 silicate)) with S131 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 10:44 |
| S134 | 33 | S133 and (exfoliat$ agglomerat$ deagglomerat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 10:46 |
| S135 | 1042 | ((solvent acetone solution) with (organoclay clay nanoclay (layer $4 near2 silicate))) and (S131 with (solvent acetone solution)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 10:51 |

| S136 | 170 | S135 and (exfoliat$ agglomerat$ deagglomerat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 10:51 |
|------|------|------|------|------|------|------|
| S137 | 107 | S135 and (exfoliat$ agglomerat$ deagglomerat$) and (agglomerat$ deagglomerat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 10:51 |
| S138 | 41149 | (fluid adj3 circuit) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:01 |
| S139 | 1 | (fluid adj3 circuit) and ((high near3 pressure) with (high near3 velocity)) and (pressure near3 collapse) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:03 |
| S140 | 86 | (fluid adj3 circuit) and ((high near3 pressure) with (high near3 velocity)) and (pressure near3 drop) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:04 |
| S141 | 151 | (fluid adj3 circuit) and (((high increas$5 high$3) near3 pressure) with ((high increase$5 high$3) near3 velocity)) and (pressure near3 drop) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:08 |
| S142 | 37 | (fluid adj3 circuit) and (((high increas$5 high$3) near3 pressure) with ((high increase$5 high$3) near3 velocity)) and (pressure near3 drop) and dispers$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:08 |
| S143 | 1018 | (fluid adj3 circuit) and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 drop) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:19 |
| S144 | 3 | (fluid adj3 circuit) and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 drop) and (agglomerat$ deagglomerat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:19 |
| S145 | 56 | (fluid adj3 circuit) and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 drop) and (obstacle) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:20 |

| S146 | 51 | (fluid adj3 circuit) and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 drop) and ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:27 |
|------|------|------|------|------|------|------|
| S147 | 5104 | dispersion and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 (drop reduc$4)) and ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:31 |
| S148 | 1671 | ((reduc$4 restrict$4 decreas$4) with diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:32 |
| S149 | 865 | ((reduc$4 restrict$4 decreas$4) with diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) and (dispers$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:32 |
| S150 | 6 | ((reduc$4 restrict$4 decreas$4) with diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) and (dispers$) and exfoliat$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:34 |
| S151 | 301 | ((apparatus device circuit) same ((reduc$4 restrict$4 decreas$4) with diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:36 |
| S152 | 85 | ((apparatus device circuit) same ((reduc$4 restrict$4 decreas$4) near5 diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) near5 (reduc$4 break$4 deagglomerat$))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:37 |
| S153 | 2331 | ((apparatus device circuit) with (fluid flow)) and ((reduc$4 restrict$4 decreas$4) near5 diameter) and (pressure near3 (drop reduc$4)) and ((particle particulate agglomerate) near5 (reduc$4 break$4 deagglomerat$)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:56 |

| S154 | 171 | ((apparatus device circuit) with (fluid flow)) and (((reduc$4 restrict$4 decreas$4) near5 diameter) same pressure same velocity) and (pressure near3 (drop reduc$4)) and ((particle particulate agglomerate) near5 (reduc$4 break$4 deagglomerat $)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 11:58 |
|------|-----|------|------|------|------|------|
| S155 | 8980 | microfluidiz$ nanofluidiz$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:26 |
| S156 | 1 | S135 and S155 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:26 |
| S157 | 491 | (solvent acetone solution) and (organoclay clay nanoclay (layer $4 near2 silicate)) and S131 and S155 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:27 |
| S158 | 28 | (solvent acetone solution) and ((organoclay clay nanoclay (layer$4 near2 silicate)) same S131) and S155 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:28 |
| S159 | 47 | ((solvent acetone solution) with (organoclay clay nanoclay (layer $4 near2 silicate))) and S131 and S155 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:30 |
| S160 | 5 | ((solvent acetone solution) same (organoclay clay nanoclay (layer $4 near2 silicate)) same S155) and S131 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:34 |
| S161 | 2 | us-20030026888-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:36 |
| S162 | 1 | S154 and S161 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:36 |
| S163 | 2 | "4533254".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:42 |

| S164 | 2 | "4908154".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 12:50 |
|------|---|---------------|----------------------------------------------------------|----|----|------------------|
| S165 | 22 | hoa-v$.in. hoa-v$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:14 |
| S166 | 13746 | liu-w$.in. liu-w$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:14 |
| S167 | 115 | pugh-m$.in. pugh-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:14 |
| S168 | 5013 | ton$5-m$.in. ton$5-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:14 |
| S169 | 18882 | S165 S166 S167 S168 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:14 |
| S170 | 5 | S135 and S169 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:15 |
| S171 | 1603 | 523/440.ccls. 523/443.ccls. 523/466.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:30 |
| S172 | 535 | 366/341.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:30 |
| S173 | 61612 | S171 S172 "366"/$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:30 |

| S174 | 19 | S135 and S173 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/07/13 13:30 |
|------|-----|----------------|----------------------------------------------------------|----|----|-------------------|
| S175 | 823142 | epox$6 diepox$6 triepox$6 polyepox$6 glycidyl$ diglycidyl $ triglycidyl$ tetraglycidyl$ polyglycidyl$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S176 | 1725 | (solvent acetone) same (organoclay clay nanoclay (layer $4 near2 silicate)) same S175 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S177 | 223 | (solvent acetone) with (organoclay clay nanoclay (layer $4 near2 silicate)) with S175 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S178 | 35 | S177 and (exfoliat$ agglomerat $ deagglomerat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S179 | 1081 | ((solvent acetone solution) with (organoclay clay nanoclay (layer $4 near2 silicate))) and (S175 with (solvent acetone solution)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S180 | 185 | S179 and (exfoliat$ agglomerat $ deagglomerat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S181 | 115 | S179 and (exfoliat$ agglomerat $ deagglomerat$) and (agglomerat$ deagglomerat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S182 | 42172 | (fluid adj3 circuit) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S183 | 1 | (fluid adj3 circuit) and ((high near3 pressure) with (high near3 velocity)) and (pressure near3 collapse) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |

| S184 | 88 | (fluid adj3 circuit) and ((high near3 pressure) with (high near3 velocity)) and (pressure near3 drop) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
|------|-----|---|---|----|----|---|
| S185 | 155 | (fluid adj3 circuit) and (((high increas$5 high$3) near3 pressure) with ((high increase$5 high$3) near3 velocity)) and (pressure near3 drop) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S186 | 40 | (fluid adj3 circuit) and (((high increas$5 high$3) near3 pressure) with ((high increase$5 high$3) near3 velocity)) and (pressure near3 drop) and dispers$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S187 | 1051 | (fluid adj3 circuit) and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 drop) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S188 | 4 | (fluid adj3 circuit) and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 drop) and (agglomerat$ deagglomerat$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S189 | 58 | (fluid adj3 circuit) and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 drop) and (obstacle) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S190 | 56 | (fluid adj3 circuit) and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 drop) and ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S191 | 5410 | dispersion and ((reduc$4 restrict$4 decreas$4) with diameter) and (pressure near3 (drop reduc$4)) and ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S192 | 1717 | ((reduc$4 restrict$4 decreas$4) with diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |

| S193 | 893 | ((reduc$4 restrict$4 decreas$4) with diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) and (dispers$) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
|------|-----|---|---|---|---|---|
| S194 | 6 | ((reduc$4 restrict$4 decreas$4) with diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$)) and (dispers$) and exfoliat$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S195 | 303 | ((apparatus device circuit) same ((reduc$4 restrict$4 decreas$4) with diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) with (reduc$4 break$4 deagglomerat$))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S196 | 86 | ((apparatus device circuit) same ((reduc$4 restrict$4 decreas$4) near5 diameter) same (pressure near3 (drop reduc$4)) same ((particle particulate agglomerate) near5 (reduc$4 break$4 deagglomerat$))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S197 | 2468 | ((apparatus device circuit) with (fluid flow)) and ((reduc$4 restrict$4 decreas$4) near5 diameter) and (pressure near3 (drop reduc$4)) and ((particle particulate agglomerate) near5 (reduc$4 break$4 deagglomerat$)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S198 | 175 | ((apparatus device circuit) with (fluid flow)) and (((reduc$4 restrict$4 decreas$4) near5 diameter) same pressure same velocity) and (pressure near3 (drop reduc$4)) and ((particle particulate agglomerate) near5 (reduc$4 break$4 deagglomerat$)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S199 | 9396 | microfluidiz$ nanofluidiz$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S200 | 3 | S179 and S199 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |

| S201 | 510 | (solvent acetone solution) and (organoclay clay nanoclay (layer$4 near2 silicate)) and S175 and S199 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
|------|-----|------|------|------|------|------|
| S202 | 30 | (solvent acetone solution) and ((organoclay clay nanoclay (layer$4 near2 silicate)) same S175) and S199 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S203 | 49 | ((solvent acetone solution) with (organoclay clay nanoclay (layer$4 near2 silicate))) and S175 and S199 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S204 | 5 | ((solvent acetone solution) same (organoclay clay nanoclay (layer$4 near2 silicate)) same S199) and S175 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S205 | 2 | us-20030026888-$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S206 | 1 | S198 and S205 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S207 | 3 | "4533254".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S208 | 2 | "4908154".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S209 | 22 | hoa-v$.in. hoa-v$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S210 | 15674 | liu-w$.in. liu-w$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |

| S211 | 118 | pugh-m$.in. pugh-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
|---|---|---|---|---|---|---|
| S212 | 5161 | ton$5-m$.in. ton$5-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S213 | 20958 | S209 S210 S211 S212 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S214 | 5 | S179 and S213 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S215 | 1627 | 523/440.ccls. 523/443.ccls. 523/466.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S216 | 539 | 366/341.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S217 | 61914 | S215 S216 "366"/$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S218 | 22 | S179 and S217 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/12/22 17:18 |
| S220 | 836954 | epox$6 diepox$6 triepox$6 polyepox$6 glycidyl$ diglycidyl$ triglycidyl$ tetraglycidyl$ polyglycidyl$ | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:31 |
| S221 | 48 | (solvent acetone solution ethanol methanol alcohol ketone ethylketone methylethylketone "mek") same (organoclay clay nanoclay (layer$4 near2 silicate)) same S220 same (sonicat$4 ultrasonicat$4 (high near3 (shear shearing sheared))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:32 |

| S222 | 23 | hoa-v$.in. hoa-v$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:34 |
|------|-----|-------------------------|----------------------------------------------------------|----|----|-------------------|
| S223 | 16653 | liu-w$.in. liu-w$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:34 |
| S224 | 122 | pugh-m$.in. pugh-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:34 |
| S225 | 5274 | ton$5-m$.in. ton$5-m$-$.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:34 |
| S226 | 22054 | S222 S223 S224 S225 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:34 |
| S227 | 1644 | 523/440.ccls. 523/443.ccls. 523/466.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:34 |
| S228 | 541 | 366/341.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:34 |
| S229 | 62066 | S227 S228 "366"/$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:34 |
| S230 | 62066 | S229 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:34 |
| S231 | 5 | S226 and ((solvent acetone solution ethanol methanol alcohol ketone ethylketone methylethylketone "mek") same (organoclay clay nanoclay (layer $4 near2 silicate)) same S220) and (sonicat$4 ultrasonicat$4 (high near3 (shear shearing sheared))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:35 |

| S232 | 3 | S227 and ((solvent acetone solution ethanol methanol alcohol ketone ethylketone methylethylketone "mek") same (organoclay clay nanoclay (layer $4 near2 silicate)) same S220) and (sonicat$4 ultrasonicat$4 (high near3 (shear shearing sheared))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2011/03/08 15:35 |

9/6/11 5:22:38 PM
C:\Documents and Settings\mfeely\My Documents\EAST\Workspaces\10596750.wsp